

**Atlas Minerals**  
Division of Atlas Corporation  
P.O. Box 1207 Moab, Utah 84532

checked date  
surety amounts against  
notices & found them  
to be correct.  
4/11/77 TCB

April 5, 1977

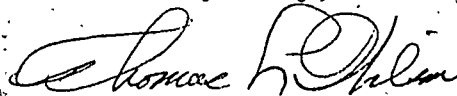
Mr. Ronald W. Daniels  
Coordinator of Mined Land Development  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Daniels:

Enclosed are the Surety Agreements for the following mines:

Probe	--	ACT/015/011
<del>Locust-Spider</del>	--	<del>ACT/037/008</del>
Windfall	--	ACT/037/010
Pandora	--	ACT/037/012

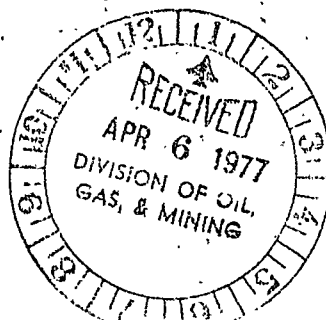
Yours very truly,



Thomas L. Wilson  
Manager of Mines

TLW/sh

Enclosures



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
BOARD OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116



\* MINED LANDS RECLAMATION CONTRACT \*

THIS CONTRACT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, between Atlas Corporation a corporation duly authorized and existing under and by virtue of the laws of \_\_\_\_\_ as party of the first part, and hereinafter called the Operator, and the Board of Oil, Gas, and Mining, duly authorized and existing by virtue of the laws of the State of Utah, as party of the second part hereinafter called the Board.

WITNESSETH:

WHEREAS, the Operator is the owner and in possession of certain mining claims and/or leases hereinafter more particularly mentioned and described in Exhibit "A" attached hereto.

WHEREAS, the Operator did on the 3rd day of February 19 77, file with the Division of Oil, Gas, and Mining, a "Notice of Intention to Commence Mining Operations" and a "Mining and Reclamation Plan" to secure authorization to engage, or continue to engage, in mining operations in the State of Utah, under the terms and provisions of the Mined Land Reclamation Act, Section 40-8, UCA, 1953;

WHEREAS, the Operator is able and willing to reclaim the above mentioned "lands affected" in accordance with the approved mining and reclamation plan, the Mined Land Reclamation Act and the rules and regulations adopted in accordance therewith.

WHEREAS, the Board has considered the factual information and recommendations provided by the staff by the Division of Oil, Gas, and Mining as to the magnitude, type and costs of the approved reclamation activities planned for the land affected.

WHEREAS, the Board is cognizant of the nature, extent, duration of operations, the financial status of the Operator and his capabilities of carrying out the planned work.

NOW THEREFORE, for and in consideration of the mutual covenants of the parties by each to the other made and herein contained, the parties hereto agree as follows:

1. The Operator promises to reclaim the land affected in accordance with the approved Mining and Reclamation Plan, the Mined Land Reclamation Act, and the Rules and Regulations adopted in accordance therewith.
2. The Board, in lieu of the posting of a bond or other surety, accepts the personal guarantee of the Operator to reclaim the land affected.
3. The Board and Operator both agree that the Operator will not be obligated to expend a sum in excess of that required to complete the reclamation work outlined in the Mining and Reclamation Plan which was designed for the mining operation as submitted to the Division on the 3rd day of February, 19 77, and which has been estimated to cost \$ 1,979.00.

IN WITNESS WHEREOF, the parties of the first and second parts hereto have respectively set their hands and seals this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

ATLAS CORPORATION  
By: A. S. Deant  
Vice President

ATTEST:

[Signature]  
Assistant Secretary

BOARD OF OIL, GAS, AND MINING

By: Guy N Cardon  
Chairman

Note: If the Operator is a corporation, the agreement should be executed by its duly authorized officer with the seal of the corporation affixed.

EXHIBIT A

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS  
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company Atlas Minerals Division of Atlas Corporation  
Corporation (X ) Partnership ( ) Individual ( )
2. Address Big Indian Mines, Moab, Utah 84532  
Permanent Temporary
3. Name and title of person representing company T. L. Wilson, Manager of Mines
4. Address Big Indian Mines Office Phone 686-2217
5. Location of Operation San Juan Sec. 5 T. 32S R. 25E  
County
6. Name of Mine Locust - Spider Mine
7. Mineral to be mined: Mining method:  
( ) Coal ( ) Flagstone Underground  
( ) Copper ( ) Gravel  
( ) Manganese ( ) Shale  
( ) Iron Ore (X) Uranium  
( ) Phosphate ( ) Gilsomite  
( ) Potash ( ) Bituminous Sandstone  
( ) Fluorspar ( ) Tungsten  
( ) Other (specify) \_\_\_\_\_

8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?

( ) Yes ( ) No

If yes, list all approval numbers now under surety:

Patty Ann Mine #ACT/037/003  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Owner/Owners of record of the surface area within the land to be affected:

Public Land Address \_\_\_\_\_  
Address \_\_\_\_\_  
Address \_\_\_\_\_  
Address \_\_\_\_\_

10. Owner/Owners of record of minerals to be mined:

<u>Atlas Minerals</u>	Address <u>Moab, Utah</u>
_____	Address _____
_____	Address _____
_____	Address _____

11. Owner/Owners of record of all other minerals within any part of the land affected:

<u>Atlas Minerals</u>	Address <u>Moab, Utah</u>
_____	Address _____
_____	Address _____

11a. Have the above owners been notified in writing?  
(X) Yes ( ) No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Ownership of Claims \_\_\_\_\_

13. Approximate acreage to be disturbed: \_\_\_\_\_ acres

Mining Operation Area:	<u>0.8</u>	acres +
(include operations, storage, & disposal area)		
Access Road or Haulageway:	<u>0</u>	acres +
Drainage System:	<u>0</u>	acres =
Total Acres:	<u>0.8</u>	Acres

14. Give the names and post office addresses of every principal Executive, Officer Partner, (or person performing a similar function) of Applicant:

Name:	Title:	Address:
a. <u>A. E. Dearth</u>	<u>President</u>	<u>Atlas Minerals Division of</u>
b. _____	_____	<u>Atlas Corporation</u>
c. _____	_____	<u>2506 Prudential Plaza</u>
d. _____	_____	<u>1050 17th Street</u>
		<u>Denver, Colorado 80202</u>

15. Has Applicant, any subsidiary or affiliate or any person, partnership, association, trust, or corporation controlled by or under common control with Applicant, or any person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? ( ) Yes (X) No

If yes; explain:

STATE OF Utah

COUNTY OF Grand

I, THOMAS L. WILSON, having been duly sworn  
depose and attest that all of the representations contained in the foregoing  
application are true to the best of my knowledge; that I am authorized to  
complete and file this application on behalf of the Applicant and this  
application has been executed as required by law.

Signed: Thomas L. Wilson

Taken, subscribed and sworn to before me the undersigned authority  
in my said county, this 3rd day of February, 1977.

Notary Public: Sharon K. Hawkins  
Moab, Utah

My Commission Expires: 10-30-80

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as  
follows:

"Information relating to the location, size, or nature  
of the deposit and marked confidential by the operator,  
shall be protected as confidential information by the  
Board and the Division and not be a matter of public  
record in the absence of a written release from the  
operator, or until the mining operation has been  
terminated as provided in subsection (2) of section  
40-8-21."

Is confidential information contained herein?

YES OK (Initial)

NO \_\_\_\_\_ (Initial)

Sections desired to be maintained as confidential information --

ANY INFORMATION REGARDING <sup>ORE</sup> GRADE AND SIZE  
OF DEPOSIT.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR 2, provided  
they contain the same information)

1. Name of Applicant or Company Atlas Minerals, Division of Atlas Corporation
2. Proposed type of operation Underground Mine
3. (a) Prior Land Use(s) Mining, Grazing  
(b) Current Land Use(s) Mining, Grazing  
(c) Possible or Prospective Future Land Use(s) Grazing
4. What vegetation exists on the land proposed to be affected Pinyon Pine,  
Juniper, Sagebrush, Native Grasses  
(a) Types and Estimated Percent cover or density: 10% on undisturbed  
areas, 0% on predisturbed area
5. What is the range pH of soil before mining? 8.0 - 8.2 pH\*  
Name of Person or Agency and method of determining pH Brad Clark  
(Lamotte - Colorimetric); \* pH value for waste rock
6. Site elevation above sea level 6200' +
7. In case of coal, oil shale, and bituminous sandstone:  
Principal seam(s) and thickness(es) \_\_\_\_\_
8. Estimated duration of mining operations Projected 10 years
9. Has overburden, waste or rejected materials been classified as acid or  
alkali producing? ( ) Yes (X) No  
Does the above material being moved have any other characteristics  
affecting revegetation? Nutrient Deficient
10. Will any underground workings or aquifers be encountered? (X) Yes ( ) No  
Describe Underground workings  
Is there an active discharge of water from abandoned deep mines on or  
crossing the land affected? ( ) Yes (X) No if yes, describe  
the quality of water being discharged. \_\_\_\_\_

11. Describe specifically a detailed procedure for: See Attachment A

- (a) The mining sequence
- (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
- (c) The procedure for site preparation including removing trees and brush.
- (d) The method for removing and stockpiling topsoil or disturbed materials.
- (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic material.
- (f) A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe: See Attachment B

- (a) Typical cross-section of regrading. See Attachment C
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- (c) What type of soil treatment will be utilized.
- (d) The method of drainage control for the final regraded area.
- (e) Maximum grading slope.

TESTING

1. Describe method for testing stability of reclamation fill material.

Observation of dumps and test plots

Describe method for the testing of soil that is intended to support vegetation

Soil analysis and test plots

2. Describe any soil treatment employed as an aid to revegetation May use

soil amendments depending upon results of test plots.

3. Describe surface preparation of areas intended to support vegetation:

Round off outside edges of waste dumps and scarify compacted surfaces.

REVEGETATION

1. Revegetation to be completed by:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Operator        | <input type="checkbox"/> Hydroseeding                           |
| <input type="checkbox"/> Soil Conservation District | <input type="checkbox"/> Aerial Seeding                         |
| <input type="checkbox"/> Private Contractor         | <input type="checkbox"/> Conventional or Rangeland Drilling     |
| Name _____  | <input checked="" type="checkbox"/> Other (specify) Broadcast & |
| <input type="checkbox"/> Other (specify) _____      | <u>Drag-Covered</u>   |

2. Will Mulch be used? No

Type \_\_\_\_\_ Rate/Acre \_\_\_\_\_ lbs.



3. Revegetation Plan and Schedule -

Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
Crested Wheat Grass	4 1/2/ac	All Locations	North East	Preferably Fall
Inter. Wheat Grass	4 "	"	" "	"
Yellow Sweet Clover	1 "	"	" "	"
Fourwing Saltbush	1 "	"	" "	"
Russian Wildrye	3 "	"	" "	"
Indian Ricegrass	1 "	"	" "	"

4. Will affected area be subject to livestock or wildlife grazing? ☒ Yes  
☐ No Will vegetation protection be needed? No, grazing impact

is not sufficient enough to warrant protection

5. Will irrigation be used? ☐ Yes ☒ No Type

6. Describe maintenance procedures for revegetation if needed, until safety release is granted. Monitoring and reseeding if necessary

I, the undersigned Operator, hereby submit this to be my Reclamation and Mining Plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

Signed Thomas R. Quinn Operator Date

Taken, subscribed and sworn to before me this undersigned authority in my said county, this 31<sup>st</sup> day of February, 1977.

Notary Public

Sharon K. Hawkins  
Moab, Utah

My Commission expires: 10-30-80

ATTACHMENT A

MINING

Uranium ore in the Saltwash Sandstone member of the Morrison formation will be mined underground through the existing Locust-Spider portal. Mining will be conducted in a safe, orderly, and minerlike fashion using a modified room and pillar technique.

The mine will be located at a predisturbed site. To facilitate mining operations, the existing ore pad and access road will be widened. The waste dump will be shifted fifty feet south from the existing dump so that waste rock will be contained on lower ledges of the canyon wall. This will aid in preventing sloughing of waste into the East Canyon Wash.

Because the site has been previously disturbed, topsoil is not available for stockpiling.

There are no natural water bodies in the area; the East Canyon Wash drains surface run-off from the surrounding area.

## ATTACHMENT B

### RECLAMATION

Upon final abandonment of the mine, extraneous debris, scrap metal and wood, and unusable buildings will be buried or removed from the location. The portal and any ventilation holes will be sealed to prevent unauthorized or accidental entry.

The mine portal area, ore pad, and mine camp will be regraded, scarified and seeded with the specified mixture. Since the waste dump is extremely steep off the canyon wall and inaccessible to heavy equipment, the tops of outside faces will be rounded off and surface drainage contours will be reestablished. Stabilized portions of the dump will be seeded. The main road through the site will be left open to provide future access into the area.

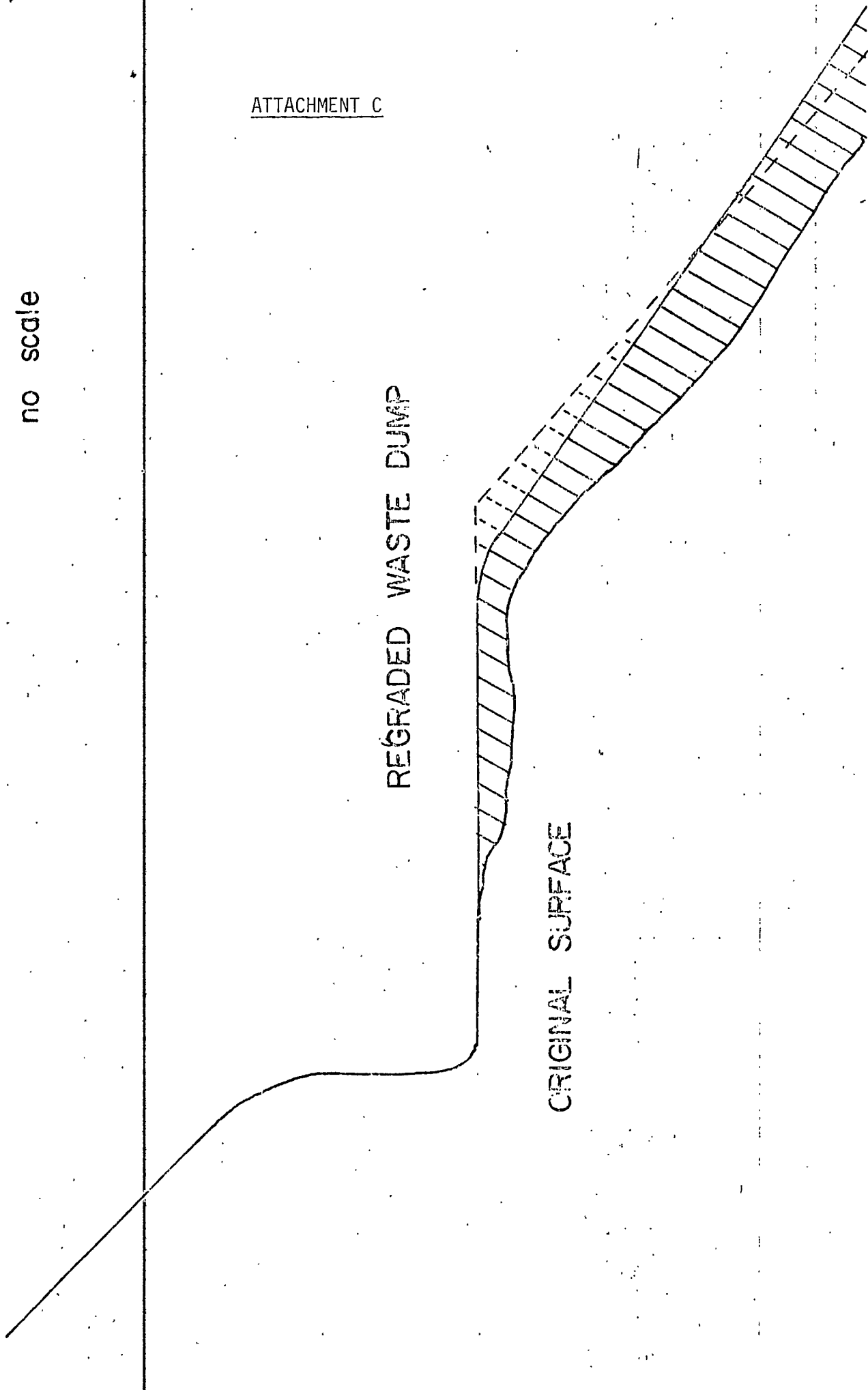
Seeded areas will be monitored and reseeded if necessary. Soil amendments may be used depending upon the results of revegetation studies in the area.

TYPICAL  
CROSS SECTION OF  
REGRADED AREA  
no scale

ATTACHMENT C

REGRADED WASTE DUMP

ORIGINAL SURFACE



DIVISION OF OIL, GAS, AND MINING  
BOND ESTIMATE

OPERATOR: *ATLAS MINERALS, DIVISION OF ATLAS CORPORATION*  
MINE NAME: *Locust-Spider*  
LOCATION: *Section 5, Township 32 South, Range 25 East*  
COUNTY: *San Juan County, Utah*  
DATE: *February 23, 1977*

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	20 man hrs	\$ 8./hr	\$ 160.
	2. Removal of trash & debris.	5 load hrs	25./hr	125.
	3. Leveling of ancillary facilities pads and access roads.	10 truck hrs	50./hr	200.
B.	REGRAIDING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	4 hours Bulldozer	50./hr	200.
	2. Recontouring of highwalls and excavations.	- - -	- -	-
	3. Spreading of soil or surficial materials.	- - -	- -	-
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	.8 acres	100./ac	80.
	2. Seeding or planting.			
	3. Construction of terraces, waterbars, etc.	1 hour Bulldozer	50./hr	50.
D.	LABOR			
	1. Supervision.	10 hours	10./hr	100.
	2. Labor exclusive of bulldozer time			
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	1 portal	300./ea	300.
		2 vents	25./ea	50.
	2. Removal or neutralization of explosive or hazardous materials.	- - -	- -	-
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	- - -	- -	-
G.	OTHER			
	1. Inflation	10 years	5%	764.
				1,215.
				1,979.
				*TOTAL*

SUBTOTAL

1,979.

\*TOTAL\*